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Thomsen, G. and Wrana, J.

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GROUP

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U.S. PATENT DOCUMENTS

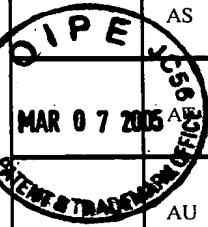
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AA	6,103,869	08/15/2000	Souchelnytokyi et al.	530	330	
AB	6,087,122	07/11/2000	Hustad et al.	435	29	
AC	6,060,262	05/09/2000	Beer-Romero et al.	435	15	
AD	6,001,619	12/14/1999	Beach et al.	435	193	
AE	09/385,198	08/30/1999	Hoekstra et al.			

FOREIGN PATENT DOCUMENTS

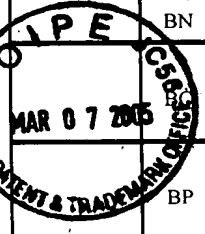
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

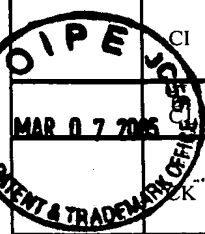
AF	Afrakhte, et al. 1998. "Induction of Inhibitory Smad6 and Smad7 mRNA by TGF- β family members," Biochemical and Biophysical Research Communications 244: 505-511.
AG	Baker, et al. 1996. "A novel mesoderm inducer, Madr2, functions in the activin signal transduction pathway," Genes & Development 10:1880-1889.
AH	Bartel, et al. 1990. "The recognition component of the N-end rule pathway," EMBO Journal 9: 3179-3189.
AI	Bartel, et al. 1995. "Analyzing protein-protein interactions using two-hybrid system," Methods in Enzymology, Vol. 254, (24):1-263.
AJ	Bashirullah, et al. 1998. "RNA Localization in Development," Annu. Rev. Biochem. 67:335-94.
AK	Bitzer, et al. 2000. "A mechanism of suppression of TGF- β /Smad signaling by NF- κ B/Rel A," Genes & Development 14:187-197.
AL	Bonifacino, et al. 1998. "Ubiquitin and the Control of Protein Fate in the Secretory and Endocytic Pathways," Ann. Rev. Cell. Biol. 14:19-57.
AM	Chen, et al. 1995. "The WW domain of Yes-associated protein binds a proline-rich ligand that differs from the consensus established for Src homology 3-binding modules," Proc. Natl. Acad. Sci. USA 82:7819-7823.
AN	Chung, et al. 1998. "A novel, putative MEK kinase controls developmental timing and spatial patterning in Dictyostelium and is regulated by ubiquitin-mediated protein degradation," Genes Dev. 12: 3564-78.
AO	Coffman, T.M., 1997. "A genetic approach for studying the physiology of the Type 1A (AT _{1A}) Angiotensin Receptor," Seminars in Nephrology 17:404-411.
AP	Derynck, et al., 1998, "Smads: Transcriptional Activators of TGF- β Responses," Cell 19:737-740.
AQ	Dickson, B.J., 1998. "Photoreceptor development: Breaking down the barriers," Current Biology 8:R90-R92.
AR	Eppert, et al. 1996. "MADR2 Maps to 18q21 and encodes a TGF β -Regulated MAD-Related protein that is functionally mutated in Colorectal Carcinoma," Cell 86: 543-552.



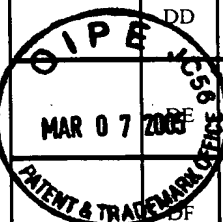
AS	Epps, et al. 1998. "The Drosophila semushi mutation blocks nuclear import of Bicoid during embryogenesis," Current Biology 8:1277-1280.
AW	Esther, Jr., et al. 1996. "Mice Lacking Angiotensin-Converting Enzyme Have Low Blood Pressure, Renal Pathology, and Reduced Male Fertility," Laboratory Investigation 74:953.
AU	Fainsod, et al. 1994. "On the function of BMP-4 in patterning the marginal zone of the Xenopus embryo," Embo J 13:5015-25.
AV	Gilboa, et al. 1998. "Oligomeric structure of Type I and Type II transforming growth Factor β Receptors: homodimers form in the ER and persist at the Plasma Membrane," J. Cell Biol. 140:767-777.
AW	Govers, et al. 1999. "Identification of a novel ubiquitin conjugation motif, required for ligand-induced internalization of the growth hormone receptor," EMBO J. 18:28-36.
AX	Graff, et al. 1996. "Xenopus Mad proteins transduce distinct subsets of signals for the TGF β Superfamily," Cell 86:1-20.
AY	Harland, et al. 1997. "Formation and function of Spemann's Organizer," Ann. Rev. Cell Biol. 13:611-667.
AZ	Harvey, et al. 1999. "Nedd4-like proteins: an emerging family of ubiquitin-protein ligases implicated in diverse cellular functions." Trends Cell Biol. 9:166-169.
BA	Hayashi, et al. 1997. "The MAD-Related protein Smad7 Associates with the TGF β Receptor and Functions as an antagonist of TGF β signaling," Cell 89:1165-1173.
BB	Hein, et al. 1995. "NPI1, an essential yeast gene involved in induced degradation of Gap1 and Fur4 permeases, encodes the RspS ubiquitin-protein ligase," Mol. Microbiol. 18:77-87.
BC	Heldin, et al. 1997. "TGF- β signalling from cell membrane to nucleus through SMAD proteins," Nature 390:465-71.
BD	Hemmati-Brivanlou, et al. 1995. "Ventral mesodermal patterning in Xenopus Embryos: expression patterns and activities of BMP-2 and BMP-4," Dev. Genet. 17:78-89.
BE	Hemmati-Brivanlou, et al. 1997. "Vertebrate Embryonic Cells will become nerve cells unless told otherwise," Cell 88:13-17.
BF	Henis, et al. 1994. "The Types II and III transforming growth Factor- β Receptors form Homo-Oligomers," J. Cell Biol. 126:139-154.
BG	Hershko, et al. 1998. "The Ubiquitin System," Ann. Rev. Biochem. 67:425-479.
BH	Hicke, L., 1999. "Gettin' down with ubiquitin: turning off cell-surface receptors, transporters and channels," Trends Cell Biol. 9:107-112.
BI	Hochstrasser, M., 1996. "Ubiquitin-Dependent protein degradation," Ann. Rev. Genet. 30:405-439.
BJ	Hoodless, et al. 1996. "MADR1, a MAD-Related protein that functions in BMP2 signaling pathways", Cell 85:489-500.
BK	Horb, et al. 1997. "A vegetally-localized T-box transcription factor in Xenopus eggs specifies mesoderm and endoderm and is essential for embryonic mesoderm formation," Dev. 124:1689-1698.
BL	Huang, et al. 1995. "Control of cell fate by a deubiquitinating enzyme encoded by the fat facets gene," Science 270:1828-31.
BM	Huibregtse, et al. 1995. "A family of proteins structurally and functionally related to the E6-AP ubiquitin-protein ligase," Proc. Natl. Acad. Sci. U.S.A. 92:2563-7.



BN	Imamura, et al. 1997. "Smad6 inhibits signaling by the TGF- β superfamily," Nature 389:622-626.
	Ishisaki, et al. 1998. "Smad7 is an activin-inducible inhibitor of activin-induced growth arrest and apoptosis in Mouse B Cells," J. Biol. Chem. 273:24293-24296.
BP	Itoh, et al. 1998. "Transforming growth factor β 1 induces nuclear export of inhibitory Smad7," J. Biol. Chem. 273:29195-29201.
BQ	Jiang, et al. 1998. "Regulation of the Hedgehog and Wingless signalling pathways by the F-box/WD40-repeat protein Slimb," Nature 391:493-6.
BR	Joazeiro, et al. 1999. "The tyrosine kinase negative regulator c-Cbl as a RING-Type, E2-Dependent ubiquitin-protein ligase," Science 286:309-312.
BS	Jonk, et al. 1998. "Identification and functional characterization of a Smad binding element (SBE) in the JunB promoter that acts as a transforming growth Factor- β , activin, and bone morphogenetic protein-inducible enhancer," J. Biol. Chem. 273:21145.
BT	Joseph, et al. 1998. "Mutant Vg1 ligands disrupt endoderm and mesoderm formation in Xenopus embryos," Development 125:2677-85.
BU	Kawabata, et al. 1998. "Signal transduction by bone morphogenetic proteins," Cytokine Growth Factor Rev. 9:49-61.
BV	Kimelman, et al. 1998. "Mesoderm Induction: A Postmodern View," Cell 94:419-21.
BW	Kim, et al. 1997, "Drosophila Mad binds to DNA and directly mediates activation of vestigial by Decapentaplegic," Nature 388:304.
BX	Kretschmar, et al. 1997. "The TGF- β family mediator Smad1 is phosphorylated directly and activated functionally by the BMP receptor kinase," Genes Dev. 11:984-95.
BY	Kumar, et al. 1997. "cDNA Cloning, expression analysis, and mapping of the Mouse Nedd4 Gene," Genomics 40:435-43.
BZ	Kwon, et al. 1998. "The mouse and human genes encoding the recognition component of the N-end rule pathway," Proc. Natl. Acad. Sci. U.S.A. 95:7898-903.
CA	Levkowitz, et al. 1999. "Ubiquitin ligase activity and tyrosine phosphorylation underlie suppression of growth factor signaling by c-Cbl/Sli-1," Mol. Cell 4:1029-1040.
CB	Lindsay, et al. 1998. "A deubiquitinating enzyme that disassembles free polyubiquitin chains is required for development but not growth in dictyostelium," J. Bio. Chem. 273:24131-8.
CC	Macias-Silva, et al. 1996. "MADR2 is a substrate of the TGF β receptor and its phosphorylation is required for nuclear accumulation and signaling," Cell 87:1215-1224.
CD	Macias-Silva, et al. 1998. "Specific activation of Smad1 signaling pathways by the BMP7 Type 1 Receptor, ALK2," J. Biol. Chem. 273:25628-36.
CE	Massague, et al. 2000. "Controlling TGF- β signaling," Genes Deve. 14:627-644.
CF	Massague, J., 1998. "TGF- β signal transduction," Ann. Rev. Biochem. 67:753-791.
CG	Miyazono, K., 2000. "TGF- β signaling by Smad proteins," Cyto. Growth Factor Rev. 11:15-22.
CH	Murakami, et al. 1996. "Hypertensive and Hypotensive Mice produced by the introduction and disruption of genes on the Renin-Angiotensin system," Blood Press. Suppl. 2:36.



CI	Muralidhar, et al. 1993. "The Drosophila bendless gene encodes a neural protein related to ubiquitin-conjugating enzymes," Neuron 11:253-66.
CK	Nakao, et al. 1997. "Identification of Smad7, a TGF β -inducible antagonist of TGF- β signalling," Nature 389:631-635.
CL	Nalefski, et al. 1996. "The C2 domain calcium-binding motif: Structural and functional diversity," Protein Sci. 5:2375-2390.
CM	Nefsky, et al. 1996. "Pub1 acts as an E6-AP-like protein ubiquitin ligase in the degradation of cdc25," Embo. J. 15:1301-1312.
CN	Patton, et al. 1998. "Combinatorial control in ubiquitin-dependent proteolysis: don't Skp the F-box hypothesis," Trends. Genet. 14:236-243.
CO	Plant, et al. 1997. "The c2 domain of the ubiquitin protein ligase Nedd4 mediates Ca ²⁺ -dependent plasma membrane localization," J. Biol. Chem. 272:32329-36.
CP	Pukatzki, et al. 1998. "A novel component involved in ubiquitination is required for development of Dictyostelium discoideum," J Biol. Chem. 273:24131-8.
CQ	Reddi, A. H., 1998. "Role of morphogenetic proteins in skeletal tissue engineering and regeneration," Nature Biotech. 16:247-252.
CR	Reeck, et al. 1987. "Homology" in proteins and nucleic acids: A terminology muddle and a way out of it," Cell 50:667.
CS	Rotin, D., 1998. "WW (WWP) domains: From structure to function," Curr. Topics Microbiol. Immunol. 228:115-133.
CT	Sasai, et al. 1997. "Ectodermal patterning in vertebrate embryos," Dev. Biol. 182:5-20.
CU	Scheiffner, et al. 1993. "The HPV-16 E6 and E6-AP Complex functions as a ubiquitin-protein ligase in the ubiquitination of p53," Cell 75:495-505.
CV	Staub, et al. 1997. "Immunolocalization of the ubiquitin-protein ligase Nedd4 in tissues expressing the epithelial Na ⁺ channel (EnaC)," Am. J Physiol. 272:C1871-80.
CW	Staub, et al. 2000. "Regulation of stability and function of the epithelial Na ⁺ channel (EnaC) by utiquitination," Kidney Int. 57:809-815
CX	Staub, et al. 1997. "Regulation of the epithelial Na ⁺ channel by Nedd4 and ubiquitination," EMBO J 16:6325-6336.
CY	Staub, et al. 1996. "WW domains," Structure 4:495-499.
CZ	Staub, et al. 1996. "WW domains of Nedd4 bind to the proline-rich PY motifs in the epithelial Na ⁺ channel deleted in Liddle's syndrome," EMBO J. 15:2371-2380.
DA	Suzuki, et al. 1997. "Smad5 induces ventral fates in Xenopus embryo," Dev. Biol. 184:402-405.
DB	Takase, et al. 1998. "Induction of Smad6 mRNA by bone morphogenetic proteins," Biochem. Biophys. Res. Commun. 244:26-29.
DC	Thomsen, G.H., 1997. "Antagonism within and around the organizer: BMP inhibitors in vertebrate body patterning," Trends Genet. 13:209-211.
DC	Thomsen, G.H., 1996. "Xenopus mothers against decapentaplegic is an embryonic ventralizing agent that acts downstream of the BMP-2/4 receptor," Development 122:2359-66.

	DD	Tsukazaki, et al. 1998. "SARA , a FYVE domain protein that recruits Smad2 to the TGFβ receptor," Cell 95:799-791.
	DE	Ulloa, et al. 1999. "Inhibition of transforming growth factor-β/SMAD signalling by the interferon-γ/STAT pathway," Nature 397:710-713.
	DF	van Kerkhof, et al. 2000. "Endocytosis and degradation of the growth hormone receptor are proteasome-dependent," J. Biol. Chem. 275:1575-1580.
	DG	Wang, , et al. 1999. "Functional domains of the Rsp5 Ubiquitin-protein ligase," Mol. Cell Biol. 19:342-52.
	DH	Whitman, M., 1998. "Smads and early developmental signaling by the TGFβ superfamily," Genes and Dev. 12:2445-2462.
	DI	Wigler, et al. 1979. "Transformation of mamalian cells with genes from procaryotes and eucaryotes," Cell 16:777-785.
	DJ	Wilson, et al. 1997. "Concentration-dependent patterning of the Xenopus ectoderm by BMP4 and its signal transducer Smad1," Dev. 124:3177-3184.
	DK	Wrana, et al. 2000. "Regulation of Smad activity," Cell 100:189-192.
	DL	Wrana, et al. 2000. "The Smad pathway," Cytokine & Growth Factor Reviews 11:5-13.
EXAMINER		DATE CONSIDERED
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